Index to Volume 49
January–December 1999

KEY

[A] = Article
[AN] = AIBS News
[BR] = Book Review
[CIB] = Computers in Biology
[E] = Editorial
[ED] = Education
[F] = Feature
[L] = Letter
[MR] = Meeting Report
[PB] = Professional Biologist
[PF] = Policy Forum
[RT] = Roundtable
[SBA] = Special Book Article
[SI] = Special Insert
[SN] = Society News
[TBR] = Textbook Review
[TOB] = Thinking of Biology
[V] = Viewpoint
[WW] = Washington Watch

Authors

Adkins-Regan, Elizabeth [BR] Biological Exuberance: Animal Homosexuality and Natural Diversity, 11: 926
Ainley, D. see Smith R. C.
Alger, A. S. see McKnight, D. M.
Anderson, Gregory J. [E] From the President: Bigger is better, 1: 3
_____. [AN] Distinguished Service Awards for 1999, 12: 1029
_____. [E] A Fitting 50th celebration, 12: 943
Anderson, Gregory J. & Richard T. O'Grady [AN] Demonstrating the importance of basic research, 10: 846
Appelbaum, S. see Harwell, M. A.
Ariniello, Leah [F] Protecting paradise, 10: 760
Atlas, Ronald M. [A] Combating the Threat of Biowarfare and Bioterrorism, 6: 465
Baker, Beth [WW] A new advisory panel will help USDA tackle the thorny issues raised by agricultural biotechnology, 6: 438
_____. Controversy over use of rock-climbing anchors may be missing the mark, 7: 529
_____. [WW] Court rulings question air pollution standards at EPA, 8: 618
_____. [WW] Fighting earmarking in the federal budget is an uphill battle, 2: 104
_____. [F] First aid for an ailing reef, 3: 173
_____. [WW] Government regulation of wetlands is under siege from all sides, 11: 869
_____. [WW] Individual fishing quotas—A complex and contentious issue, 3: 180
_____. [WW] New federal task force tackles amphibian troubles, 5: 366
_____. [WW] New project will provide a link between scientists and the judiciary, 10: 764
_____. [WW] New report assesses the health of biological resources across the United States, 9: 698
_____. [WW] Spending on the Endangered Species Act—too much or not enough?, 4: 279
_____. [F] The greening of utilities, 8: 612
_____. [WW] US Forest Service program builds bridges between government and public, 1: 18
Baker, K. see Smith, R. C.
Baldwin, L. A. see Calabrese, E. J.
Barko, J. see Harwell, M. A.
Barnes, B. M. see Boyer, B. B.
Bartuska, A. see Harwell, M. A.
Baskin, Yvonne [F] Yellowstone fires: A decade later, 2: 93
Bayley, D. P. see Jarrell, K. F.
Bean, Michael J. [BR] Private Property and the Endangered Species Act: Saving Habitats, Protecting Homes, 10: 825
Behan-Pelletier, Val & Glen Newton [CIB] Linking soil biodiversity and ecosystem function—The taxonomic dilemma, 2: 149
Ben-Ari, Elia T. [F] A throbbing in the air, 5: 353
_____. [F] Better than a thousand words, 8: 602
_____. [SBA] Electronic publishing: Past, present, and future, 3: 229
_____. [F] Molecular biographies, 2: 98
_____. [F] Not just slime, 9: 689
_____. [F] Paternity battles, 12: 951
_____. [F] The silence of the genes, 6: 432
_____. [SBA] When scientists write books for the public, 10: 819
Bergelson, J. see Ewel, J. J.
Berger, J. see Pimentel, D.
Berman-Frank, Ilana & Zvy Dubinsky [A] Balanced Growth in Aquatic Plants: Myth or Reality?, 1: 29
Billing, J. see Sherman, P. W.
Blair, J. M. see Knapp, A. K.
Bohlen, P. J. see Groffman, P. M.
Bolin, B. see McMichael, A. J.

RECENT SPECIAL ISSUES

Symbiotic Associations, Vol. 48, No. 4
Flooding as a Disturbance, Vol. 48, No. 9
Belowground Biodiversity, Vol. 49, No. 2
McMurdo Dry Valleys, Antarctica, Vol. 49, No. 12

Bomblies, A. see McKnight, D. M.
Boyer, Bert B. & Brian M. Barnes [A] Molecular and Metabolic Aspects of Mammalian Hibernation, 9: 713
Briggs, John C. [L] Marine Species Diversity, 5: 351
Briggs, J. M. see Knapp, A. K.
Brigham, R. Mark [BR] Bat Biology and Conservation, 9: 742
Brodie, E. D. Jr. see Brodie, E. D. III
Brodie, Edmund D. III & Edmund D. Brodie Jr. [A] Predator–Prey Arms Races, 7: 557
_____. [L] Response to letter from Roger C. Prince, 12: 944
Brookshire, B. L. see Chen, J.
Brosofske, K. D. see Chen, J.
Brown, William S. [L] Egg Production Mode Outmoded?, 6: 431
Brownlie, Alison & Leonard Zon [A] The Zebrafish as a Model System for the Study of Hematopoiesis, 5: 382
Burkins, M. B. see Fountain, A. G.
Burt, William & Roland C. Clement [L] Quantifying species—A lost opportunity, 2: 92
Cafaro, Philip, Warren Platts & Richard Primack [L] Conserving wilderness Areas, 9: 687
Cairns, John, Jr. [BR] Perverse Subsidies: Tax $s Undercutting Our Economies and Environments Alike, 4: 334
Calabrese, Edward J. & Linda A. Baldwin [A] Reevaluation of the Fundamental Dose–Response Relationship, 9: 725
Caraco, N. F. see Strayer, D. L.
Causey, B. see Harwell, M. A.
Chapuisat, M. see Keller, L.
Chasan, Rebecca [E] From the Editor: A new look, 11: 855
Chen, Jiquan, Sari C. Saunders, Thomas R. Crow, Robert J. Naiman, Kimberley D. Brosofske, Glenn D. Mroz, Brian L. Brookshire & Jerry F. Franklin [A] Microclimate in Forest Ecosystem and Landscape Ecology, 4: 288
Clement, R. C. see Burt, W.
Cohn, Jeffrey P. [F] A makeover for Rocky Mountain Arsenal, 4: 273
_____. [F] Saving the California condor,

Index to Volume 49
January–December 1999

KEY

[A] = Article
[AN] = AIBS News
[BR] = Book Review
[CIB] = Computers in Biology
[E] = Editorial
[ED] = Education
[F] = Feature
[L] = Letter
[MR] = Meeting Report
[PB] = Professional Biologist
[PF] = Policy Forum
[RT] = Roundtable
[SBA] = Special Book Article
[SI] = Special Insert
[SN] = Society News
[TBR] = Textbook Review
[TOB] = Thinking of Biology
[V] = Viewpoint
[WW] = Washington Watch

Authors

Adkins-Regan, Elizabeth [BR] Biological Exuberance: Animal Homosexuality and Natural Diversity, 11: 926
Ainley, D. see Smith R. C.
Alger, A. S. see McKnight, D. M.
Anderson, Gregory J. [E] From the President: Bigger is better, 1: 3
_____. [AN] Distinguished Service Awards for 1999, 12: 1029
_____. [E] A Fitting 50th celebration, 12: 943
Anderson, Gregory J. & Richard T. O'Grady [AN] Demonstrating the importance of basic research, 10: 846
Appelbaum, S. see Harwell, M. A.
Ariniello, Leah [F] Protecting paradise, 10: 760
Atlas, Ronald M. [A] Combating the Threat of Biowarfare and Bioterrorism, 6: 465
Baker, Beth [WW] A new advisory panel will help USDA tackle the thorny issues raised by agricultural biotechnology, 6: 438
_____. Controversy over use of rock-climbing anchors may be missing the mark, 7: 529
_____. [WW] Court rulings question air pollution standards at EPA, 8: 618
_____. [WW] Fighting earmarking in the federal budget is an uphill battle, 2: 104
_____. [F] First aid for an ailing reef, 3: 173
_____. [WW] Government regulation of wetlands is under siege from all sides, 11: 869
_____. [WW] Individual fishing quotas—A complex and contentious issue, 3: 180
_____. [WW] New federal task force tackles amphibian troubles, 5: 366
_____. [WW] New project will provide a link between scientists and the judiciary, 10: 764
_____. [WW] New report assesses the health of biological resources across the United States, 9: 698
_____. [WW] Spending on the Endangered Species Act—too much or not enough?, 4: 279
_____. [F] The greening of utilities, 8: 612
_____. [WW] US Forest Service program builds bridges between government and public, 1: 18
Baker, K. see Smith, R. C.
Baldwin, L. A. see Calabrese, E. J.
Barko, J. see Harwell, M. A.
Barnes, B. M. see Boyer, B. B.
Bartuska, A. see Harwell, M. A.
Baskin, Yvonne [F] Yellowstone fires: A decade later, 2: 93
Bayley, D. P. see Jarrell, K. F.
Bean, Michael J. [BR] Private Property and the Endangered Species Act: Saving Habitats, Protecting Homes, 10: 825
Behan-Pelletier, Val & Glen Newton [CIB] Linking soil biodiversity and ecosystem function—The taxonomic dilemma, 2: 149
Ben-Ari, Elia T. [F] A throbbing in the air, 5: 353
_____. [F] Better than a thousand words, 8: 602
_____. [SBA] Electronic publishing: Past, present, and future, 3: 229
_____. [F] Molecular biographies, 2: 98
_____. [F] Not just slime, 9: 689
_____. [F] Paternity battles, 12: 951
_____. [F] The silence of the genes, 6: 432
_____. [SBA] When scientists write books for the public, 10: 819
Bergelson, J. see Ewel, J. J.
Berger, J. see Pimentel, D.
Berman-Frank, Ilana & Zvy Dubinsky [A] Balanced Growth in Aquatic Plants: Myth or Reality?, 1: 29
Billing, J. see Sherman, P. W.
Blair, J. M. see Knapp, A. K.
Bohlen, P. J. see Groffman, P. M.
Bolin, B. see McMichael, A. J.

RECENT SPECIAL ISSUES

Symbiotic Associations, Vol. 48, No. 4
Flooding as a Disturbance, Vol. 48, No. 9
Belowground Biodiversity, Vol. 49, No. 2
McMurdo Dry Valleys, Antarctica, Vol. 49, No. 12

Bomblies, A. see McKnight, D. M.
Boyer, Bert B. & Brian M. Barnes [A] Molecular and Metabolic Aspects of Mammalian Hibernation, 9: 713
Briggs, John C. [L] Marine Species Diversity, 5: 351
Briggs, J. M. see Knapp, A. K.
Brigham, R. Mark [BR] Bat Biology and Conservation, 9: 742
Brodie, E. D. Jr. see Brodie, E. D. III
Brodie, Edmund D. III & Edmund D. Brodie Jr. [A] Predator–Prey Arms Races, 7: 557
_____. [L] Response to letter from Roger C. Prince, 12: 944
Brookshire, B. L. see Chen, J.
Brosofske, K. D. see Chen, J.
Brown, William S. [L] Egg Production Mode Outmoded?, 6: 431
Brownlie, Alison & Leonard Zon [A] The Zebrafish as a Model System for the Study of Hematopoiesis, 5: 382
Burkins, M. B. see Fountain, A. G.
Burt, William & Roland C. Clement [L] Quantifying species—A lost opportunity, 2: 92
Cafaro, Philip, Warren Platts & Richard Primack [L] Conserving wilderness Areas, 9: 687
Cairns, John, Jr. [BR] Perverse Subsidies: Tax $s Undercutting Our Economies and Environments Alike, 4: 334
Calabrese, Edward J. & Linda A. Baldwin [A] Reevaluation of the Fundamental Dose–Response Relationship, 9: 725
Caraco, N. F. see Strayer, D. L.
Causey, B. see Harwell, M. A.
Chapuisat, M. see Keller, L.
Chasan, Rebecca [E] From the Editor: A new look, 11: 855
Chen, Jiquan, Sari C. Saunders, Thomas R. Crow, Robert J. Naiman, Kimberley D. Brosofske, Glenn D. Mroz, Brian L. Brookshire & Jerry F. Franklin [A] Microclimate in Forest Ecosystem and Landscape Ecology, 4: 288
Clement, R. C. see Burt, W.
Cohn, Jeffrey P. [F] A makeover for Rocky Mountain Arsenal, 4: 273
_____. [F] Saving the California condor,

11: 864
_____. [F] Tracking wildlife, 1: 12
Cole, J. J. see Strayer, D. L.
Collins, S. L. see Knapp, A. K.
Conovitz, P. A. see McKnight, D. M.
Correia, J. D. see Jarrell, K. F.
Costanza, Robert [BR] Consilience: The Unity of Knowledge, 6: 487
_____. [BR] Guns, Germs, and Steel: The Fates of Human Societies, 10: 828
_____. see McMichael, A. J.
Covich, Alan P., Margaret A. Palmer & Todd A. Crowl [A] The Role of Benthic Invertebrate Species in Freshwater Ecosystems , 2: 119
Crow, T. R. see Chen, J.
Crowl, T. A. see Covich, A. P.
Curnutt, John L. [BR] Avian Conservation: Research and Management, 1: 71
Daehler, C. C. see Ewel, J. J.
Daily, G. C. see McMichael, A. J.
Dana, G. L. see Fountain, A. G.
D'Anna, L. see Pimentel, D.
D'Antonio, C. M. see Ewel, J. J.
DeHayes, Donald H., Paul G. Schaberg, Gary J. Hawley & G. Richard Strimbeck [A] Acid Rain Impacts on Calcium Nutrition and Forest Health, 10: 789
Derting, Terry L. [TBR] Principles of Conservation Biology. 2nd ed., 3: 250
Di Berardino, M. A. see McKinnell, R. G.
Dinerstein, E. see Ricketts, T. H.
Domack, E. see Smith, R. C.
Doon, N. see Pimentel, D.
Dooris, Patricia M. [BR] Water, Culture, & Power: Local Struggles in a Global Context, 3: 240
Doran, P. T. see Fountain, A. G.
_____. see Moorhead, D. L.
Dubinsky, Z. see Berman-Frank, I.
Dudley, Judith L. [BR] Restoring Life in Running Waters: Better Biological Monitoring, 10: 827
Emslie, S. see Smith, R. C.
Ewel, John J., Dennis J. O'Dowd, Joy Bergelson, Curtis C. Daehler, Carla M. D'Antonio, Luis Diego Gómez, Doria R. Gordon, Richard J. Hobbs, Alan Holt, Keith R. Hopper, Colin E. Hughes, Marcy LaHart, Roger R. B. Leakey, William G. Lee, Lloyd L. Loope, David H. Lorence, Svata M. Louda, Ariel E. Lugo, Peter B. McEvoy, David M. Richardson & Peter M. Vitousek [A] Deliberate Introductions of Species: Research Needs, 8: 619
Findlay, S. see Strayer, D. L.
Flannery, Maura C. [ED] The conservation aesthetic and the microscopic aesthetic, 10: 801
Folke, C. see McMichael, A. J.
Fountain, A. G. see Moorhead, D. L.
Fountain, Andrew G., W. Berry Lyons, Melody B. Burkins, Gayle L. Dana, Peter T. Doran, Karen J. Lewis, Diane M. McKnight, Daryl L. Moorhead, Andrew N. Parsons, John C. Priscu, Diana H. Wall, Robert A. Wharton Jr. & Ross A. Virginia [A] Physical Controls on the Taylor Valley Ecosystem, Antarctica, 12: 961
Franklin, J. F. see Chen, J.
Fraser, B. see Smith, R. C.
Fritsen, C. H. see Priscu, J. C.
Galen, Candace [A] Why Do Flowers Vary?, 8: 631
Gassman, N. see Harwell, M. A.
Gavin, Ray H. [A] Synergy of Cytoskeleton Components, 8: 641
Gentile, J. H. see Harwell, M. A.
Gest, Howard & Eugene D. Weinberg [TOB] Dr. Robert Dalton (1975–2018), victim of forsaken science—a cautionary tale, 4: 327
Gettel, G. M., see Hershey, A. E.
Gilbert, Cole [BR] Neurons, Networks, and Motor Behavior, 2: 156
Givnish, T. J. see Leach, M. K.
Goklany, Indur M. [L] Different opinions on disease incidence, 4: 267
_____. [L] Response to letter from Peter Salonius, 6: 499
Gómez, L. D. see Ewel, J. J.
Gordon, D. R. see Ewel, J. J.
Gotelli, Nicholas J. [BR] Experimental Ecology: Issues and Perspectives, 10: 829
Griffiths, Paul E. & Eva M. Neumann-Held [TOB] The many faces of the gene, 8: 656
Groffman, Peter M. & Patrick J. Bohlen [A] Soil and Sediment Biodiversity, 2: 139
Hall, Brian K. [TOB] The paradoxical platypus, 3: 211
_____. [L] Response to letter from William S. Brown, 6: 431
Hartmann, Thomas [BR] Alkaloids: Biochemistry, Ecology, and Medicinal Application, 3: 238
Hartnett, D. C. see Knapp, A. K.
Harwell, C. see Harwell, M. A.
Harwell, Mark A., Victoria Myers, Terry Young, Ann Bartuska, Nancy Gassman, John H. Gentile, Christine C. Harwell, Stuart Appelbaum, John Barko, Billy Causey, Christine Johnson, Agnes McLean, Ron Smola, Paul Templet & Stephen Tosini [A] A Framework for an Ecosystem Integrity Report Card, 7: 543
Hawley, G. J. see DeHayes, D. H.
Henderson, R. A. see Leach, M. K.
Hershey, Anne E., Gretchen M. Gettel, Michael E. McDonald, Michael C. Miller, Howard Mooers, W. John O'Brien, John Pastor, Carl Richards & Jeff A. Schuldt [A] A Geomorphic—Trophic Model for Landscape Control of Arctic Lake Food Webs, 11: 887
Hobbs, R. J. see Ewel, J. J.
Holt, A. see Ewel, J. J.
Hopper, K. R. see Ewel, J. J.
Howard, E. see Pimentel, D.
Hubert, W. A. see Isaak, D. J.
Hughes, C. E. see Ewel, J. J.
Hughes, K. W. see Petersen, R. H.
Huntingford, Felicity A. [BR] Perspectives in Ethology. Vol. 12: Communication, 3: 235
Isaak, Daniel J. & Wayne A. Hubert [ED] Catalyzing the transition from student to scientist—a model for graduate research training, 4: 321
James, Frances C. [PF] Lessons learned from a study of habitat conservation planning, 11: 871
Jarrell, Ken F., Douglas P. Bayley, Jason D. Correia & Nikhil A. Thomas [A] Recent Excitement about the Archaea, 7: 530
Jarrett, J. N. see Pechenik, J. A.
Jennings, M. R. see Scott, N. J. Jr.
Johnson, C. see Harwell, M. A.
Johnson, L. C. see Knapp, A. K.
Johnson, Norman A. [BR] Darwinian Dynamics: Evolutionary Transitions in Fitness and Individuality, 10: 833
Jordan, Carl F. [BR] Tropical Moist Forest Silviculture and Management: A History of Success and Failure, 5: 413
Jungck, John R. [BR] Following Form and Function: A Philosophical Archaeology of Life Science, 10: 839
_____. [BR] The Darwinian Shift: Kuhn vs. Laudan, 10: 839
Keeney, Dennis [BR] Facilitating Sustainable Agriculture: Participatory Learning and Adaptive Management in Times of Environmental Uncertainty, 6: 488
Keller, Laurent & Michel Chapuisat [A] Cooperation among Selfish Individuals in Insect Societies, 11: 899
Kennett, J. see Smith, R. C.
Kitching, Roger [BR] Vanishing Treasures of the Philippine Rain Forest, 3: 239
Knapp, Alan K., David C. Hartnett, Scott L. Collins & John M. Briggs [L] Response to letter from Mark K. Leach, Richard A. Henderson & Thomas J. Givnish, 8: 600
Knapp, Alan K., John M. Blair, John M. Briggs, Scott L. Collins, David C. Hartnett, Loretta C. Johnson & E. Gene Towne [A] The Keystone Role of Bison in North American Tallgrass Prairie, 1: 39
Kolber, Jodi F. [AN] AIBS holds roundtable on strategies for supporting research and education in environmental biology, 3: 257
_____. [AN] ESA/AIBS forum on flooding held on Capitol Hill, 1: 80
Korn, Robert W. [TOB] Biological organization—A new look at an old problem, 1: 51
Krawic, A. see Pimentel, D.
Krimsky, Sheldon [BR] The Society of Cells: Cancer and Control of Cell Proliferation, 9: 747
LaHart, M. see Ewel, J. J.
Lambert, D. see Millar, C.

Lasley, Elizabeth Norton [F] Having their toxins and eating them too, 12: 945
Laursen, Jeffrey R. [TBR] An Introduction to Parasitology, 5: 417
Laybourn-Parry, J. see Priscu, J. C.
Leach, Mark K., Richard A. Henderson & Thomas J. Givnish [L] A caution against grazing, 8: 599
Leakey, R. R. B. see Ewel, J. J.
Lee, S. see Pimentel, D.
Lee, W. G. see Ewel, J. J.
Leventer, A. see Smith, R. C.
Levy, Sharon [F] Geneticists go wild, 1: 5
_____. [L] Response to letter from Norman J. Scott Jr. & Mark R. Jennings, 7: 512
Lewis, K. J. see Fountain, A. G.
Libby, Donald L. [L] Other causes of increasing disease [L] 4: 268
Lidicker, William Z [BR] The Population Ecology of the Vole *Clethrionomys rufocanus*, 10: 837
Lindahl-Kiessling, K. see McMichael, A. J.
Lindgren, E. see McMichael, A. J.
Lintilhac, Philip M. [TOB] Toward a theory of cellularity—Speculations on the nature of the living cell, 1: 59
Loope, L. L. see Ewel, J. J.
Lorence, D. H. see Ewel, J. J.
Loucks, C. see Ricketts, T. H.
Louda, S. M. see Ewel, J. J.
Lugo, A. E. see Ewel, J. J.
Luken, James O. [BR] Habitat Creation and Repair, 4: 332
Lyons, W. B. see Fountain, A. G.
_____. see Moorhead, D. L.
_____. see Priscu, J. C.
Marshall, David [BR] Geopolitics and the Green Revolution: Wheat, Genes, and the Cold War, 8: 664
McDonald, M. E. see Hershey, A. E.
McEvoy, P. B. see Ewel, J. J.
McKinnell, Robert G. & Marie A. Di Berardino [A] The Biology of Cloning: History and Rationale, 11: 875
McKnight, D. M. see Fountain, A. G.
_____. see Moorhead, D. L.
McKnight, Diane M., Dev K. Niyogi, Alexander S. Alger, Arne Bomblies, Peter A. Conovitz & Cathy M. Tate [A] Dry Valley Streams in Antarctica: Ecosystems Waiting for Water, 12: 985
McLean, A. see Harwell, M. A.
McMichael, Anthony J., Bert Bolin, Robert Costanza, Gretchen C. Daily, Carl Folke, Kerstin Lindahl-Kiessling, Elisabet Lindgren & Bo Niklasson [A] Globalization and the Sustainability of Human Health, 3: 205
McNamara, Kenneth J. [BR] The Garden of Ediacara: Discovering the First Complex Life, 9: 745
McSweegan, Edward [L] A tool for assessing impacts on health, 2: 92
Meagher, Thomas R. [SI] Evolution and today's society, 11: 923
Meffert, Lisa Marie [A] How Speciation Experiments Relate to Conservation Biology, 9: 701
Millar, Craig & David Lambert [BR] Melanism: Evolution in Action, 12: 1021
Miller, M. C. see Hershey, A. E.
Mooers, H. see Hershey, A. E.
Moore, J. C. see Wall, D. H.
Moorhead, D. L. see Fountain, A. G.
Moorhead, Daryl L., Peter T. Doran, Andrew G. Fountain, W. Berry Lyons, Diane M. McKnight, John C. Priscu, Ross A. Virginia & Diana H. Wall [A] Ecological Legacies: Impacts on Ecosystems of the McMurdo Dry Valleys, 12: 1009
Moreno, Nancy P. [ED] K–12 science education reform—a primer for scientists, 7: 569
Morita, Richard Y. [BR] Extremophiles: Microbial Life in Extreme Environments, 3: 245
Mosley-Thompson, E. see Smith, R. C.
Mroz, G. D. see Chen, J.
Mugo, F. see Pimentel, D.
Myers, Norman [BR] Which World? Scenarios for the 21st Century: Global Destinies, Regional Choices, 10: 834
Myers, V. see Harwell, M. A.
Naiman, R. J. see Chen, J.
Neumann-Held, E. M. see Griffiths, P. E.
Newton, G. see Behan-Pelletier, V.
Nijhout, H. Frederik [A] Control Mechanisms of Polyphenic Development in Insects, 3: 181
Niklasson, B. see McMichael, A. J.
Niyogi, D. K. see McKnight, D. M.
Norris, Scott [F] Marine life in the limelight, 7: 520
O'Brien, W. J. see Hershey, A. E.
O'Dowd, D. J. see Ewel, J. J.
O'Grady, R. T. see Anderson, G. J.
Olson, D. M. see Ricketts, T. H.
Pace, M. L. see Strayer, D. L.
Padian, Kevin [BR] Buffon: A Life in Natural History, 1: 72
Palen, John [BR] Health Writer's Handbook, 7: 579
_____. [BR] Science in Public: Communication, Culture and Credibility, 1: 75
Palmer, M. A. see Covich, A. P.
Parlange, Mary [F] Parasites in the pipes, 5: 360
Parsons, A. N. see Fountain, A. G.
Pastor, J. see Hershey, A. E.
Paul, Ellen [WW] National Park Service sets out the welcome mat for science, 12: 958
Pechenik, Jan A., Dean E. Wendt & Jeremiah N. Jarrett [L] Response to letter from Frank Slansky, 3: 256
Perini, Laura [BR] Nature's Purposes: Analyses of Function and Design in Biology, 3: 243
Petersen, Ronald H. & Karen W. Hughes [A] Species and Speciation in Mushrooms, 6: 440
Pimentel, David, Maria Tort, Linda D'Anna, Anne Krawic, Joshua Berger, Jessica Rossman, Fridah Mugo, Nancy Doon, Michael Shriberg, Erica Howard, Susan Lee & Jonathan Talbot [L] Response to letters from Indur M. Goklany and Donald L. Libby, 4: 269
Platts, W. see Cafaro, P.
Potter, Christopher S. [A] Terrestrial Biomass and the Effects of Deforestation on the Global Carbon Cycle, 10: 769
Pouyat, Richard V. [PF] Science and environmental policy—making them compatible, 4: 281
Powledge, Tabitha M. [F] Addiction and the brain, 7: 513
Primack, R. see Cafaro, P.
Prince, Roger C. [L] The arms suppliers in predator–prey arms races, 12: 944
Priscu, John C. [A] Life in the Valley of the "Dead," 12: 959
_____. see Fountain, A. G.
_____. see Moorhead, D. L.
Priscu, John C., Craig F. Wolf, Cristina D. Takacs, Christian H. Fritsen, Johanna Laybourn-Parry, Emily C. Roberts, Birgit Sattler & W. Berry Lyons [A] Carbon Transformations in a Perennially Ice-Covered Antarctic Lake, 12: 997
Rapport, David J. & Walter G. Whitford [A] How Ecosystems Respond to Stress, 3: 193
Richards, C. see Hershey, A. E.
Richardson, D. M. see Ewel, J. J.
Ricketts, Taylor H. [BR] The World's Water 1998–1999: The Biennial Report on Freshwater Resources, 10: 831
Ricketts, Taylor H., Eric Dinerstein, David M. Olson & Colby Loucks [A] Who's Where in North America?, 5: 369
Roberts, E. C. see Priscu, J. C.
Robinson, Gene E. [BR] Pheromone Communication in Social Insects, 2: 154
Rodriguez, Laura Lyman [AN] A fellowship year in review, 10: 846
Rossman, J. see Pimentel, D.
Rozzi, Ricardo [TOB] The reciprocal links between evolutionary–ecological sciences and environmental ethics, 11: 911
Ryan, Michael G. [BR] Ecology and Biogeography of *Pinus*, 12: 1023
Rykiel, Ed [SN] Ecosystem science at the Natural Resource Ecology Laboratory, 1: 69
Salonius, Peter [L] Fueling Technology, 6: 499
Sarkar, Sahotra [L] Response to letter from Philip Cafaro, Warren Platts & Richard Primack, 9: 687
_____. see Thieffry, D.
_____. [TOB] Wilderness preservation and biodiversity conservation—keeping divergent goals distinct, 5: 405
Sattler, B. see Priscu, J. C.
Saunders, S. C., see Chen, J.
Saxer, Rebecca L. [BR] Hungry Hollow: The Story of a Natural Place, 10: 841
Schaberg, P. G. see DeHayes, D. H.

Schuldt, J. A. see Hershey, A. E.
Scott, Norman J. Jr. & Mark R. Jennings [L] Defending Whole-Animal Collections, 7: 511
Shanley, Patricia [BR] A Field Guide to Medicinal and Useful Plants of the Upper Amazon, 8: 663
Sherman, Paul W. & Jennifer Billing [A] Darwinian Gastronomy: Why We Use Spices, 6: 453
Shriberg, M. see Pimentel, D.
Simberloff, Daniel [BR] Life Out of Bounds: Bioinvasion in a Borderless World, 5: 414
Slansky, Frank [L] Immature-stage experience of insects, 3: 172
Smil, Vaclav [A] Crop Residues: Agriculture's Largest Harvest, 4: 299
Smith, Raymond C. [BR] Antarctic Sea Ice: Biological Processes, Interactions and Variability, Antarctic Research Series, 7: 577
Smith, Raymond C., David Ainley, Karen Baker, Eugene Domack, Steve Emslie, Bill Fraser, James Kennett, Amy Leventer, Ellen Mosley-Thompson, Sharon Stammerjohn & Maria Vernet [A] Marine Ecosystem Sensitivity to Climate Change, 5: 393
Smola, R. see Harwell, M. A.
Snelgrove, Paul V. R. [A] Getting to the Bottom of Marine Biodiversity: Sedimentary Habitats, 2: 129
_____. [L] Response to letter from John C. Briggs, 5: 351
Soulé, Michael E. & John Terborgh [RT] Conserving nature at regional and continental scales—scientific program for North America, 10: 809
Stammerjohn, S. see Smith, R. C.
Strasser, Bruno J. [BR] DNA Pioneers and Their Legacy, 3: 241
_____. [BR] A History of Molecular Biology, 11: 929
Strayer, David L., Nina F. Caraco, Jonathan J. Cole, Stuart Findlay & Michael L. Pace [A] Transformation of Freshwater Ecosystems by Bivalves, 1: 19
Strimbeck, G. R. see DeHayes, D. H.
Suttle, C. A. see Wilhelm, S. W.
Takacs, C. D. see Priscu, J. C.
Talbot, J. see Pimentel, D.
Tanner, Ralph S. [BR] Graduate Research: A Guide for Students in the Sciences, 4: 331
Tate, C. M. see McKnight, D. M.
Tauber, Alfred I. [TOB] Is biology a political science?, 6: 479
Templet, P. see Harwell, M. A.
Terborgh, J. see Soulé, M. E.
Terry, Thomas M. [ED] Weaving the Web into biology teaching, 9: 733
Thieffry, Denis & Sahotra Sarkar [MR] Postgenomics? A conference at the Max Planck Institute for the History of Science in Berlin, 3: 223
Thomas, N. A. see Jarrell, K. F.
Tort, M. see Pimentel, D.
Tosini, S. see Harwell, M. A.
Towne, E. G. see Knapp, A. K.
Van Putten, Mark [V] Higher Ground, 10: 759
Vernet, M. see Smith, R. C.
Virginia, R. A. see Fountain, A. G.
_____. see Moorhead, D. L.
Virginia, Ross A. & Diana H. Wall [A] How Soils Structure Communities in the Antarctic Dry Valleys, 12: 973
Vitousek, P. M. see Ewel, J. J.
Wagner, Frederic H. [BR] Our National Parks and the Search for Sustainability, 11: 927
_____. [PF] Whatever happened to the National Biological Survey? 3: 219
Wall, Diana H. [A] Biodiversity and Ecosystem Functioning, 2: 107
_____. see Fountain, A. G.
_____. see Moorhead, D. L.
_____. see Virginia, R. A.
Wall, Diana H. & John C. Moore [A] Interactions Underground, 2: 109
Weinberg, E. D. see Gest, H.
Wendt, D. E. see Pechenik, J. A.
Wharton, R. A. Jr. see Fountain, A. G.
Whitaker, Paul [BR] interBRAIN: Topographical anatomy of the human CNS—Study Edition, 3: 251
Whitford, W. G. see Rapport, D. J.
Wikel, Stephen K. [A] Modulation of the Host Immune System by Ectoparasitic Arthropods, 4: 311
Wilhelm, Steven W. & Curtis A. Suttle [A] Viruses and Nutrient Cycles in the Sea, 10: 781
Williams, David G. [BR] Population Biology of Grasses, 8: 667
Withgott, Jay [F] Pollination migrates to top of conservation agenda, 11: 857
Wolf, C. F. see Priscu, J. C.
Young, T. see Harwell, M. A.
Zon, L. see Brownlie, A.

AIBS News

AIBS 51st annual meeting planned with the Smithsonian for March 2000, 11: 936
AIBS announces online access to *BioScience*, 12: 1027
AIBS appoints public policy representative, 12: 1027
AIBS awards Presidential Citation for 1999, 6: 494
AIBS bylaws modified, 5: 423
AIBS conference and meeting services activities expand, 4: 340
AIBS distributes meeting profits to member societies, 8: 677
AIBS elects new officers for 1999, 2: 162
AIBS endorses multi-society document on evolution, 3: 259
AIBS holds roundtable on HCPs, 8: 678
AIBS holds roundtable on strategies for supporting research and education in environmental biology, Jodi F. Kolber, 3: 257
AIBS leadership meets with NSF and NSB, 6: 494
AIBS presents 1999 Media Awards, 12: 1028
AIBS releases statement on Kansas evolution decision, 11: 935
AIBS scientific peer review services expand, 7: 586
AIBS society support services expand, 10: 846
AIBS-sponsored meetings planned for 1999, 5: 422
AIBS supports Darwin Day at University of Tennessee, 6: 497
AIBS to produce all-society directory, 4: 340
AIBS to review biology teaching materials, 8: 676
AIBS visits Capitol Hill during Congressional Visits Day '99, 8: 676
AIBS welcomes 53rd member society, 5: 422
AIBS welcomes four new MSOs to the federation, 11: 935
AIBS welcomes two new member societies, 7: 586
Biology leaders to gather at AIBS President's Summit, 9: 752
BioOne to offer online access to database of AIBS member societies' research journals, 9: 752
BioScience wins SNAP gold award, 7: 587
Career guide now available from AIBS, 4: 341
Demonstrating the importance of basic research, Gregory J. Anderson & Richard T. O'Grady, 10: 846
Distinguished Service Awards for 1999, Gregory J. Anderson, 12: 1029
ESA/AIBS forum on flooding held on Capitol Hill, Jodi F. Kolber, 1: 80
Fellowship year in review, Laura Lyman Rodriguez, A, 10: 846
NABS joins AIBS as 60th member society, 9: 752
New AIBS Congressional Fellow selected, 8: 677
New committee strengthens AIBS public policy activities, 6: 496
Online *BioScience* subscriptions available, 1: 81
Oxford University Press joins AIBS publishers discount program, 11: 936
Presidents@aibs.org listserv launched, 8: 677
Publisher program expands in 1999, 2: 163
Science Publishers offers discounts to AIBS members, 4: 341
US scientific community joins forces to support research, 12: 1027
What's new online at AIBS, 7: 587

Articles

Acid Rain Impacts on Calcium Nutrition and Forest Health, Donald H. DeHayes, Paul G. Schaberg, Gary J. Hawley & G. Richard Strimbeck, 10: 789
Balanced Growth in Aquatic Plants: Myth

or Reality?, Ilana Berman-Frank & Zvy Dubinsky, 1: 29
Biodiversity and Ecosystem Functioning, Diana H. Wall, 2: 107
Biology of Cloning: History and Rationale, The, Robert G. McKinnell & Marie A. Di Berardino, 11: 875
Carbon Transformations in a Perennially Ice-Covered Antarctic Lake, John C. Priscu, Craig F. Wolf, Cristina D. Takacs, Christian H. Fritsen, Johanna Laybourn-Parry, Emily C. Roberts, Birgit Sattler & W. Berry Lyons, 12: 997
Combating the Threat of Biowarfare and Bioterrorism, Ronald M. Atlas, 6: 465
Control Mechanisms of Polyphenic Development in Insects, H. Frederik Nijhout, 3: 181
Cooperation Among Selfish Individuals in Insect Societies, Laurent Keller & Michel Chapuisat, 11: 899
Crop Residues: Agriculture's Largest Harvest, Vaclav Smil, 4: 299
Darwinian Gastronomy: Why We Use Spices, Paul W. Sherman & Jennifer Billing, 6: 453
Deliberate Introductions of Species: Research Needs, John J. Ewel, Dennis J. O'Dowd, Joy Bergelson, Curtis C. Daehler, Carla M. D'Antonio, Luis Diego Gómez, Doria R. Gordon, Richard J. Hobbs, Alan Holt, Keith R. Hopper, Colin E. Hughes, Marcy LaHart, Roger R. B. Leakey, William G. Lee, Lloyd L. Loope, David H. Lorence, Svata M. Louda, Ariel E. Lugo, Peter B. McEvoy, David M. Richardson & Peter M. Vitousek, 8: 619
Dry Valley Streams in Antarctica: Ecosystems Waiting for Water, Diane M. McKnight, Dev K. Niyogi, Alexander S. Alger, Arne Bomblies, Peter A. Conovitz & Cathy M. Tate, 12: 985
Ecological Legacies: Impacts on Ecosystems of the McMurdo Dry Valleys, Daryl L. Moorhead, Peter T. Doran, Andrew G. Fountain, W. Berry Lyons, Diane M. McKnight, John C. Priscu, Ross A. Virginia & Diana H. Wall, 12: 1009
Framework for an Ecosystem Integrity Report Card, A, Mark A. Harwell, Victoria Myers, Terry Young, Ann Bartuska, Nancy Gassman, John H. Gentile, Christine C. Harwell, Stuart Appelbaum, John Barko, Billy Causey, Christine Johnson, Agnes McLean, Ron Smola, Paul Templet & Stephen Tosini, 7: 543
Geomorphic–Trophic Model for Landscape Control of Arctic Lake Food Webs, A, Anne E. Hershey, Gretchen M. Gettel, Michael E. McDonald, Michael C. Miller, Howard Mooers, W. John O'Brien, John Pastor, Carl Richards & Jeff A. Schuldt, 11: 887
Getting to the Bottom of Marine Biodiversity: Sedimentary Habitats, Paul V. R. Snelgrove, 2: 129
Globalization and the Sustainability of Human Health, Anthony J. McMichael, Bert Bolin, Robert Costanza, Gretchen C. Daily, Carl Folke, Kerstin Lindahl-Kiessling, Elisabet Lindgren & Bo Niklasson, 3: 205
How Ecosystems Respond to Stress, David J. Rapport & Walter G. Whitford, 3: 193
How Soils Structure Communities in the Antarctic Dry Valleys, Ross A. Virginia & Diana H. Wall, 12: 973
How Speciation Experiments Relate to Conservation Biology, Lisa Marie Meffert, 9: 701
Interactions Underground, Diana H. Wall & John C. Moore, 2: 109
Keystone Role of Bison in North American Tallgrass Prairie, The, Alan K. Knapp, John M. Blair, John M. Briggs, Scott L. Collins, David C. Hartnett, Loretta C. Johnson & E. Gene Towne, 1: 39
Life in the Valley of the "Dead," John C. Priscu, 12: 959
Marine Ecosystem Sensitivity to Climate Change, Raymond C. Smith, David Ainley, Karen Baker, Eugene Domack, Steve Emslie, Bill Fraser, James Kennett, Amy Leventer, Ellen Mosley-Thompson, Sharon Stammerjohn & Maria Vernet, 5: 393
Microclimate in Forest Ecosystem and Landscape Ecology, Jiquan Chen, Sari C. Saunders, Thomas R. Crow, Robert J. Naiman, Kimberly D. Brosofske, Glenn D. Mroz, Brian L. Brookshire & Jerry F. Franklin, 4: 288
Modulation of the Host Immune System by Ectoparasitic Arthropods, Stephen K. Wikel, 4: 311
Molecular and Metabolic Aspects of Mammalian Hibernation, Bert B. Boyer & Brian M. Barnes, 9: 713
Physical Controls on the Taylor Valley Ecosystem, Antarctica, Andrew G. Fountain, W. Berry Lyons, Melody B. Burkins, Gayle L. Dana, Peter T. Doran, Karen J. Lewis, Diane M. McKnight, Daryl L. Moorhead, Andrew N. Parsons, John C. Priscu, Diana H. Wall, Robert A. Wharton Jr. & Ross A. Virginia, 12: 961
Predator–Prey Arms Races, Edmund D. Brodie III & Edmund D. Brodie Jr., 7: 557
Recent Excitement about the Archaea, Ken F. Jarrell, Douglas P. Bayley, Jason D. Correia & Nikhil A. Thomas, 7: 530
Reevaluation of the Fundamental Dose–Response Relationship, Edward J. Calabrese & Linda A. Baldwin, 9: 725
Role of Benthic Invertebrate Species in Freshwater Ecosystems, The, Alan P. Covich, Margaret A. Palmer & Todd A. Crowl, 2: 119
Soil and Sediment Biodiversity, Peter M. Groffman & Patrick J. Bohlen, 2: 139
Species and Speciation in Mushrooms, Ronald H. Petersen & Karen W. Hughes, 6: 440
Synergy of Cytoskeleton Components, Ray H. Gavin, 8: 641
Terrestrial Biomass and the Effects of Deforestation on the Global Carbon Cycle, Christopher S. Potter, 10: 769
Transformation of Freshwater Ecosystems by Bivalves, David L. Strayer, Nina F. Caraco, Jonathan J. Cole, Stuart Findlay & Michael L. Pace, 1: 19
Viruses and Nutrient Cycles in the Sea, Steven W. Wilhelm & Curtis A. Suttle, 10: 781
Who's Where in North America?, Taylor H. Ricketts, Eric Dinerstein, David M. Olson & Colby Loucks, 5: 369
Why Do Flowers Vary?, Candace Galen, 8: 631
Zebrafish as a Model System for the Study of Hematopoiesis, The, Alison Brownlie & Leonard Zon, 5: 382

Book Reviews

Alkaloids: Biochemistry, Ecology, and Medicinal Application, edited by Margaret F. Roberts & Michael Wink, reviewed by Thomas Hartmann, 3: 238
Antarctic Sea Ice: Biological Processes, Interactions and Variability, Antarctic Research Series, Vol. 73, edited by Michael Lizotte & Kevin Arrigo, reviewed by Raymond C. Smith, 7: 577
Avian Conservation: Research and Management, edited by John M. Marzluff & Rex Sallabanks, reviewed by John L. Curnutt, 1: 71
Bat Biology and Conservation, edited by Thomas H. Kunz & Paul A. Racey, reviewed by R. Mark Brigham, 9: 742
Biological Exuberance: Animal Homosexuality and Natural Diversity, by Bruce Bagemihl, reviewed by Elizabeth Adkins-Regan, 11: 926
Buffon: A Life in Natural History, by Jacques Roger, reviewed by Kevin Padian, 1: 72
Consilience: The Unity of Knowledge, by Edward O. Wilson, reviewed by Robert Costanza, 6: 487
Darwinian Dynamics: Evolutionary Transitions in Fitness and Individuality, by Richard E. Michod, reviewed by Norman A. Johnson, 10: 833
Darwinian Shift: Kuhn vs. Laudan, The, by Caroline Joan "Kay" S. Picart, reviewed by John R. Jungck, 10: 839
DNA Pioneers and Their Legacy, by Ulf Lagerkvist, reviewed by Bruno J. Strasser, 3: 241
Ecology and Biogeography of *Pinus*, edited by David M. Richardson, reviewed by Michael G. Ryan, 12: 1023
Experimental Ecology: Issues and Perspectives, edited by William J. Res-

etarits Jr. & Joseph Bernardo, reviewed by Nicholas J. Gotelli, 10: 829
Extremophiles: Microbial Life in Extreme Environments, edited by Koki Horikoshi & William D. Grant, reviewed by Richard Y. Morita, 3: 245
Facilitating Sustainable Agriculture: Participatory Learning and Adaptive Management in Times of Environmental Uncertainty, edited by Niels G. Röling & M. Annemarie E. Wagemakers, reviewed by Dennis Keeney, 6: 488
Field Guide to Medicinal and Useful Plants of the Upper Amazon, A, by James Lee Castner, Stephen Lee Timme & James Alan Duke, reviewed by Patricia Shanley, 8: 663
Following Form and Function: A Philosophical Archaeology of Life Science, by Stephen T. Asma, reviewed by John R. Jungck, 10: 839
Garden of Ediacara: Discovering the First Complex Life, The, by Mark A. S. McMenamin, reviewed by Kenneth J. McNamara, 9: 745
Geopolitics and the Green Revolution: Wheat, Genes, and the Cold War, by John H. Perkins, reviewed by David Marshall, 8: 664
Graduate Research: A Guide for Students in the Sciences, 3rd ed., by Robert V. Smith, reviewed by Ralph S. Tanner, 4: 331
Guns, Germs, and Steel: The Fates of Human Societies, by Jared Diamond, reviewed by Robert Costanza, 10: 828
Habitat Creation and Repair, by Oliver L. Gilbert & Penny Anderson, reviewed by James O. Luken, 4: 332
Health Writer's Handbook, by Barbara Gastel, reviewed by John Palen, 7: 579
History of Molecular Biology, A, by Michel Morange, reviewed by Bruno J. Strasser, 11: 929
Hungry Hollow: The Story of a Natural Place, by A. K. Dewdney, reviewed by Rebecca L. Saxer, 10: 841
interBRAIN: Topographical anatomy of the human CNS—Study Edition, by Martin C. Hirsch, reviewed by Paul Whitaker, 3: 251
Life Out of Bounds: Bioinvasion in a Borderless World, by Chris Bright, reviewed by Daniel Simberloff, 5: 414
Melanism: Evolution in Action, by Michael E. N. Majerus, reviewed by Craig Millar & David Lambert, 12: 1021
Nature's Purposes: Analyses of Function and Design in Biology, edited by Colin Allen, Mark Bekoff & George Lauder, reviewed by Laura Perini, 3: 243
Neurons, Networks, and Motor Behavior, edited by Paul S. G. Stein, Sten Grillner, Allen I. Selverston & Douglas Stuart, reviewed by Cole Gilbert, 2: 156
Our National Parks and the Search for Sustainability, by Bob R. O' Brien, reviewed by Frederic H. Wagner, 11: 927
Perverse Subsidies: Tax $s Undercutting Our Economies and Environments Alike, by Norman Myers with Jennifer V. Kent, reviewed by John Cairns, Jr., 4: 334
Pheromone Communication in Social Insects, edited by Robert K. Vander Meer, Michael D. Breed, Mark L. Winston & Karl E. Espelie, reviewed by Gene E. Robinson, 2: 154
Population Biology of Grasses, edited by Gregory P. Cheplick, reviewed by David G. Williams, 8: 667
Population Ecology of the Vole *Clethrionomys rufocanus*, The, edited by Nils C. Stenseth & Takashi Saitoh, reviewed by William Z. Lidicker Jr., 10: 837
Principles of Conservation Biology, 2nd ed., by Gary K. Meffe, C. Ronald Carroll, and contributors, reviewed by Terry L. Derting, 3: 250
Private Property and the Endangered Species Act: Saving Habitats, Protecting Homes, edited by Jason F. Shogren, reviewed by Michael J. Bean, 10: 825
Restoring Life in Running Waters: Better Biological Monitoring, by James R. Karr & Ellen W. Chu, reviewed by Judith L. Dudley, 10: 827
Science in Public: Communication, Culture and Credibility, by Jane Gregory & Steve Miller, reviewed by John Palen, 1: 75
Society of Cells: Cancer and Control of Cell Proliferation, The, by Carlos Sonnenschein & Ana M. Soto, reviewed by Sheldon Krimsky, 9: 747
Tropical Moist Forest Silviculture and Management: A History of Success and Failure, by H. Colyear Dawkins & Michael S. Philip, reviewed by Carl F. Jordan, 5: 413
Vanishing Treasures of the Philippine Rain Forest, by Lawrence Heaney & Jacinto Regalado, reviewed by Roger Kitching, 3: 239
Water, Culture, & Power: Local Struggles in a Global Context, edited by John M. Donahue & Barbara Rose Johnston, reviewed by Patricia M. Dooris, 3: 240
Which World? Scenarios for the 21st Century: Global Destinies, Regional Choices, by Allen Hammond, reviewed by Norman Myers, 10: 834
World's Water 1998–1999: The Biennial Report on Freshwater Resources, The, by Peter H. Gleick, reviewed by Taylor H. Ricketts, 10: 831

Computers in Biology

Linking soil biodiversity and ecosystem function—The taxonomic dilemma, Val Behan-Pelletier & Glen Newton, 2: 149

Editorial

Fitting 50th celebration, A, Gregory J. Anderson, 12: 943
From the Editor: A new look, Rebecca Chasan, 11: 855
From the President: Bigger is better, Gregory J. Anderson, 1: 3

Education

Catalyzing the transition from student to scientist—a model for graduate research training, Daniel J. Isaak & Wayne A. Hubert, 4: 321
Conservation aesthetic and the microscopic aesthetic, The, Maura C. Flannery, 10: 801
K–12 science education reform—a primer for scientists, Nancy P. Moreno, 7: 569
Weaving the Web into biology teaching, Thomas M. Terry, 9: 733

Features

Addiction and the brain, Tabitha M. Powledge, 7: 513
Better than a thousand words, Elia T. Ben-Ari, 8: 602
First aid for an ailing reef, Beth Baker, 3: 173
Geneticists go wild, Sharon Levy, 1: 5
Greening of utilities, The, Beth Baker, 8: 612
Having their toxins and eating them too, Elizabeth Norton Lasley, 12: 945
Makeover for Rocky Mountain Arsenal, A, Jeffrey P. Cohn, 4: 273
Marine life in the limelight, Scott Norris, 7: 520
Molecular biographies, Elia T. Ben-Ari, 2: 98
Not just slime, Elia T. Ben-Ari, 9: 689
Parasites in the pipes, Mary Parlange, 5: 360
Paternity battles, Elia T. Ben-Ari, 12: 951
Pollination migrates to top of conservation agenda, Jay Withgott, 11: 857
Protecting paradise, Leah Ariniello, 10: 760
Saving the California condor, Jeffrey P. Cohn, 11: 864
Silence of the genes, The, Elia T. Ben-Ari, 6: 432
Throbbing in the air, A, Elia T. Ben-Ari, 5: 353
Tracking wildlife, Jeffrey P. Cohn, 1: 12
Yellowstone fires: A decade later, Yvonne Baskin, 2: 93

Letters

Arms suppliers in predator–prey arms races, The, Roger C. Prince, 12: 944
Caution against grazing, A, Mark K. Leach, Richard A. Henderson & Thomas J. Givnish, 8: 599
Conserving wilderness areas, Philip Cafaro, Warren Platts & Richard Primack, 9: 687

Defending whole-animal collections, Norman J. Scott & Mark R. Jennings, 7: 511
Different opinions on disease incidence, Indur M. Goklany, 4: 267
Egg production mode outmoded?, William S. Brown, 6: 431
Fueling technology, Peter Salonius, 6: 499
Immature-stage experience of insects, Frank Slansky, 3: 172
Marine species diversity, John C. Briggs, 5: 351
Other causes of increasing disease, Donald L. Libby, 4: 268
Quantifying species—A lost opportunity, William Burt & Roland C. Clement, 2: 92
Response to letter from Frank Slansky; Jan A. Pechenik, Dean E. Wendt & Jeremiah N. Jarrett, 3: 256
Response to letter from John C. Briggs; Paul V. R. Snelgrove, 5: 351
Response to letter from Mark K. Leach, Richard A. Henderson & Thomas J. Givnish; Alan K. Knapp, David C. Hartnett, Scott L. Collins & John M. Briggs, 8: 600
Response to letter from Norman J. Scott Jr. & Mark R. Jennings; Sharon Levy, 7: 512
Response to letter from Peter Salonius; Indur M. Goklany, 6: 499
Response to letter from Philip Cafaro, Warren Platts & Richard Primack; Sahotra Sarkar, 9: 687
Response to letter from Roger C. Prince; Edmund D. Brodie III & Edmund D. Brodie Jr., 12: 944
Response to letter from William S. Brown; Brian K. Hall, 6: 431
Response to letters from Indur M. Goklany and Donald L. Libby; David Pimentel, Maria Tort, Linda D'Anna, Anne Krawic, Joshua Berger, Jessica Rossman, Fridah Mugo, Nancy Doon, Michael Shriberg, Erica Howard, Susan Lee & Jonathan Talbot, 4: 269
Tool for assessing impacts on health, A, Edward McSweegan, 2: 92

Meeting Report

Postgenomics? A conference at the Max Planck Institute for the History of Science in Berlin, Denis Thieffry & Sahotra Sarkar, 3: 223

Policy Forum

Lessons learned from a study of habitat conservation planning, Frances C. James, 11: 871
Science and environmental policy—making them compatible, Richard V. Pouyat, 4: 281
Whatever happened to the National Biological Survey?, Frederic H. Wagner, 3: 219

Roundtable

Conserving nature at regional and continental scales—a scientific program for North America, Michael E. Soulé and John Terborgh, 10: 809

Society News

Ecosystem science at the Natural Resource Ecology Laboratory, Ed Rykiel, 1: 69

Special Book Article

Electronic publishing: Past, present, and future, Elia T. Ben-Ari, 3: 229
When scientists write books for the public, Elia T. Ben-Ari, 10: 819

Special Insert

Evolution and today's society, Thomas R. Meagher, 11: 923

Textbooks

An Introduction to Parasitology, by Bernard E. Matthews, reviewed by Jeffrey R. Laursen, 5: 417

Thinking of Biology

Biological organization—A new look at an old problem, Robert W. Korn, 1: 51
Dr. Robert Dalton (1975–2018), victim of forsaken science—a cautionary tale, Howard Gest & Eugene D. Weinberg, 4: 327
Is biology a political science?, Alfred I. Tauber, 6: 479
Many faces of the gene, The, Paul E. Griffiths & Eva M. Neumann-Held, 8: 656
Paradoxical platypus, The, Brian K. Hall, 3: 211
Reciprocal links between evolutionary–ecological sciences and environmental ethics, The, Ricardo Rozzi, 11: 911
Toward a theory of cellularity—Speculations on the nature of the living cell, Philip M. Lintilhac, 1: 59
Wilderness preservation and biodiversity conservation—keeping divergent goals distinct, Sahotra Sarkar, 5: 405

Viewpoint

Higher Ground, Mark Van Putten, 10: 759

Washington Watch

Controversy over use of rock-climbing anchors may be missing the mark, Beth Baker, 7: 529
Court rulings question air pollution standards at EPA, Beth Baker, 8: 618
Fighting earmarking in the federal budget is an uphill battle, Beth Baker, 2: 104
Government regulation of wetlands is under siege from all sides, Beth Baker, 11: 869
Individual fishing quotas—A complex and contentious issue, Beth Baker, 3: 180
National Park Service sets out the welcome mat for science, Ellen Paul, 12: 958
New advisory panel will help USDA tackle the thorny issues raised by agricultural biotechnology, A, Beth Baker, 6: 438
New federal task force tackles amphibian troubles, Beth Baker, 5: 366
New project will provide a link between scientists and the judiciary, Beth Baker, 10: 764
New report assesses the health of biological resources across the United States, Beth Baker, 9: 698
Spending on the Endangered Species Act—too much or not enough?, Beth Baker, 4: 279
US Forest Service program builds bridges between government and public, Beth Baker, 1: 18 ❑